

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John MUNDY et al

Title: METHOD OF USING MAPK4 AND
ORTHOLOGUES THEREOF TO
CONTROL PLANT DISEASE
RESISTANCE AND PLANT
GROWTH

Appl. No.: 09/730,478

Filing Date: 12/06/2000

Examiner: Unassigned

Art Unit: Unassigned



INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
Washington, D.C. 20231

Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

The relevance of the documents is described in the present specification..

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

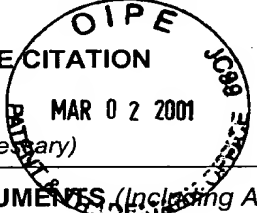
By _____

Date March 2, 2001

FOLEY & LARDNER
Washington Harbour
3000 K Street, N.W., Suite 500
Washington, D.C. 20007-5109
Telephone: (202) 672-5404
Facsimile: (202) 672-5399

Stephen A. Bent
Attorney for Applicant
Registration No. 29,768

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 030307/0193		SERIAL NO. 09/730,478		
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT John MUNDY et al				
				FILING DATE 12/06/2000		GROUP ART UNIT Unassigned		
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
	A1	99/43796	09/99	WIPO				
	A2	98/18939	05/98	WIPO				
	A3	99/40210	08/99	WIPO				
	A4	91/15580	10/91	WIPO				
	A5	98/51801	11/98	WIPO				
	A6	99/36542	07/99	WIPO				
	A7	96/31608	10/96	WIPO				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
	A8	Alonso et al., "EIN2, a Bifunctional Transducer of Ethylene and Stress Responses in Arabidopsis", 1999, Science 284, pp. 2148-2152, Plant Science Inst., Dept of Biology, Univ. of PA						
	A9	Altschul et al. "Basic Local Alignment Search Tool" 1990, J. Mol. Biol. 215, pp. 403-410, Academic Press Limited						
	A10	Alvarez et al., "Reactive Oxygen Intermediates Mediate a Systemic Signal Network in the Establishment of Plant Immunity", 1998, Cell 92, pp. 773-784, Cell Press						
	A11	Aoyama & Chua, "A glucocorticoid-mediated transcriptional induction system in transgenic plants", 1997, Plant Journal 11, pp. 605-612, Inst. Of Chemical Research						
	A12	Arus et al., "Constitutive expression of the cold-regulated <i>Arabidopsis thaliana</i> COR15a gene affects both Chloroplast and protoplast freezing tolerance", 1996, Proc. Natl. Acad. Sci. 93, pp. 13404-13409 Dept. of Crop & Soil Sciences						
	A13	Bardwell et al., "Repression of yeast Ste12 transcription factor by direct binding of unphosphorylated Kss1 MAPK and its regulation by the Ste7 MEK", 1998, Genes & Development 12, pp. 2887-2898, Cold Spring Harbor laboratory Press						
	A14	Bowling et al., "A Mutation in Arabidopsis that leads to Constitutive Expression of Systemic Acquired Resistance", 1994, Plant Cell 6, pp. 1845-1857, American Society Of Plant Physiologists						
	A15	Braam et al., "Rain-, Wind-, and Touch-Induced Expression of Calmodulin and Calmodulin-Related Genes", 1990, Cell 60, pp. 357-364						
	A16	Caddick et al., "An ethanol Inducible gene switch for plants used to manipulate carbon metabolism", 1998, Nature Biotechnology 16, pp. 177-180, School of Biological Sciences, Univ. of Liverpool						
EXAMINER				DATE CONSIDERED				
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.								

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 030307/0193	SERIAL NO. 09/730,478
INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)				APPLICANT John MUNDY et al	
				FILING DATE 12/06/2000	GROUP ART UNIT Unassigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
	A17	Cao et al., "The Arabidopsis NPR1 Gene that controls systemic acquired resistance Encodes a Novel Protein Containing Ankyrin Repeats" Cell 88, pp. 57-63, Cell Press			
	A18	Christensen & Quail, "Ubiquitin promoter-based vectors for high level expression of selectable and/or screenable marker genes in monocotyledonous plants", 1996, Transgenic Research 5, pp. 213-218			
		Chapman & Hall			
	A19	Dietrich et al., "A Novel Zinc Finger Protein is Encoded by the Arabidopsis LSD1 Gene and Functions as a Negative Regulator of Plant Cell Death", 1997, Cell 88, pp. 685-694, Cell Press			
	A20	Feldmann et al., "A Dwarf Mutant of Arabidopsis Generated by T-DNA Insertion Mutagenesis" 1989, Science 243, pp. 1351-1354			
	A21	Galzebrook et al., "Use of Arabidopsis for Genetic Dissection of Plant Defense Responses", 1997, Annu. Rev. Genet. 31, pp. 547-569, Annu. Reviews Inc.			
	A22	Grantz et al., "Ascorbate Free Radical Reductase mRNA Levels are Induced by Wounding", 1995, Plant Physiol. 108, pp. 411-418, Melvin Calvin Laboratory, Univ. of California			
	A23	Gray et al., "High temperature promotes auxin-mediated hypocotyl elongation in <i>Arabidopsis</i> " 1998, Proc. Natl. Acad. Sci. 95, pp. 7197-7202, National Academy of Science			
	A24	Hua & Meyerowitz, "Ethylene Responses are Negatively Regulated by a Receptor Gene Family in <i>Arabidopsis thaliana</i> ", 1998, Cell 94, pp. 261-271, Cell Press			
	A25	Huang & Miller, "A Time-Efficient, Linear-Space local Similarity Algorithm", 1991, Adv. Appl. Math. 12, pp. 337-357, Academic Press, Inc.			
	A26	Ichimura et al., "isolation of ATMEKK1 (a MAP Kinase Kinase Kinase)-Interacting Proteins and Analysis of a MAP Kinase Cascade in Arabidopsis" 1998, Biochem. Biophys. Res. Commun. 253, pp. 532-543			
		Academic Press			
	A27	Ishige-Fumiharu et al., "A G-box motif (GCCACGTGCC) tetramer confers high-level constitutive expression in dicot and monocot plants" 1999, Plant Journal 18, pp. 443-448, Blackwell Science Ltd.			
	A28	Jach et al., "Enhanced quantitative resistance against fungal disease by combinatorial expression of Different barely antifungal proteins in transgenic tobacco", 1995, Plant Journal 8, pp. 97-109,			
	A29	Krysan et al., "Identification of transferred DNA insertions within Arabidopsis genes involved in signal Transduction and ion transport", 1996, Proc. Natl. Acad. Sci. 93, pp. 8145-8150, Univ. of Wisconsin			
	A30	Last et al., "pEmu: an improved promoter for gene expression in cereal cells" 1991, Theoretical & Applied Genetics 81: pp.581-588, Springer-Verlag			
EXAMINER				DATE CONSIDERED	
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.					

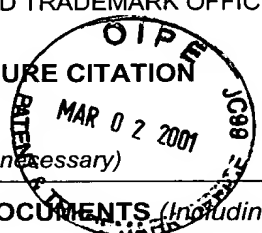
Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 030307/0193		SERIAL NO. 09/730,478	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT John MUNDY et al			
				FILING DATE 12/06/2000		GROUP ART UNIT Unassigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A31	Leung et al., "Arabidopsis ABA Response Gene ABI1: Features of a Calcium-Modulated Protein Phosphatase" 1994, Science 264, pp. 1448-1452, Institut des Sciences Vegetales, France					
	A32	Li & Chory, "A Putative Leucine-Rich Repeat Receptor Kinase involved in Brassinosteroid Signal Transduction" 1997, J. Cell 90, pp. 929-938, Cell Press					
	A33	Ligterink et al., "Receptor-Mediated Activation of a MAP Kinase in Pathogen Defense of Plants", 1997, Science 276, pp. 2054-2057, Science Mag. Org.					
	A34	Liu et al., "Efficient isolation and mapping of Arabidopsis thaliana T-DNA insert junctions by thermal asymmetric interlaced PCR", 1995, Plant J. 8, pp. 457-463, Western Regional Research Center					
	A35	Madhani & Fink, "the riddle of MAP kinase signaling specificity", 1998, Trends in Genet. 14, pp. 151-155 Elsevier Science Ltd.					
	A36	Martinez et al., "Ecdysone agonist inducible transcription in transgenic tobacco plants", 1999, Plant Journal 19, pp. 97-106, Blackwell Science Ltd.					
	A37	McElroy et al., "Isolation of an Efficient Actin Promoter for Use in Rice Transformation", 1990, Plant Cell 2, pp. 163-172, American Society of Plant Physiologists					
	A38	Merkouropoulos et al., "The Arabidopsis extension gene is developmentally regulated, is induced by wounding Methyl jasmonate, abscisic and salicylic acid, and codes for a protein with unusual motifs", 1999, Planta 208, pp. 212-219, Springer-Verlag					
	A39	Mett et al., "Copper-controllable gene expression system for whole plants", 1993, Proc. Natl. Acad. Sci. 90, pp. 4567-4571, Plant Biology					
	A40	Miklos & Rubin, "The role of the Genome project in determining gene function: insights from model organisms" 1996, Cell 86, pp. 521-529, Cell Press					
	A41	Mizoguchi et al., "ATMPKs: a gene family of plant MAP kinases in Arabidopsis thaliana" 1993, FEBS Lett. 336, pp. 440-444, Elsevier Science Publishers					
	A42	Mizoguchi et al., "A gene encoding a mitogen-activated protein kinase kinase kinase is induced simultaneously with genes for a mitogen-activated protein kinase and an S6 ribosomal protein kinase by touch Cold, and water stress in Arabidopsis thaliana", 1996, Proc. Natl. Acad. Sci. 93, pp. 765-769, Plant Biology					
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.							

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 030307/0193	SERIAL NO. 09/730,478
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT John MUNDY et al	
				FILING DATE 12/06/2000	GROUP ART UNIT Unassigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
	A43	Mizoguchi et al., "Environmental stress response in plants: the role of mitogen-activated protein kinase" 1997, TIBTECH 15, pp. 15-19, Elsevier Science Ltd.			
	A44	Morris et al., "Cloning and characterisation of MEK1, an Arabidopsis gene encoding a homologue of MAP kinase kinase", 1997, Plant Mol. Biol. 35, pp. 1057-1064, Kluwer Academic Publishers			
	A45	Mantyla et al., "Role of Absciscic Acid in Drought-induced freezing Tolerance, Cold Acclimation, and Accumulation of LTI78 and RAB18 proteins in <i>Arabidopsis thaliana</i> " 1995, Plant Physiol. 107, pp. 141-148			
		Clearance Center			
	A46	Pearson & Lipman, "Improved tools for biological sequence comparison", 1988, Proc. Natl. Acad. Sci. 85, pp. 2444-2448, Dept. of Biochemistry, Univ of VA			
	A47	Peng et al., "The Arabidopsis GAI gene defines a signaling pathway that negatively regulates gibberellin Responses", 1997, Genes & Development 11, pp. 3194-3205, Cold spring Harbor Laboratory Press			
	A48	Romeis et al., "Rapid Avr9- and Cf-9-Dependent Activation of MAP Kinases in Tobacco Cell Cultures and Leaves: Convergence of Resistance Gene, Elicitor, Wound, and Salicylate Responses", 1999, Plant Cell, pp. 273-287, American Society of Plant Physiologists			
	A49	Ruan et al., "Towards Arabidopsis genome analysis: monitoring expression profiles of 1400 genes using cDNA Microarrays" 1998, Plant J. 15, pp. 821-833, Blackwell Science Ltd.			
	A50	Siebert et al., "cis-Analysis of the Wound-Inducible Promoter wun1 in Transgenic Tobacco Plants and Histochemical Localization of its Expression", 1989, Plant Cell 1, pp. 961-968, Amer. Soc. Of Plant Physiol.			
	A51	Somerville & Somerville, "Plant Functional Genomics", 1999, Science 285, pp. 380-383, Carnegie Inst. Of WA			
	A52	Staskawicz et al., "Molecular Genetics of Plant Disease Resistance", 1995, Science 268, pp. 661-667 Plant Science Institute			
	A53	Sundaresan et al., "Patterns of gene action in plant development revealed by enhancer trap and gene trap transposable elements" 1995, Genes Develop. 9, pp. 1797-1810, Cold Spring Harbor Laboratory Press			
	A54	Takahashi & Komeda, Characterization of two genes encoding small heat-shock proteins in Arabidopsis thaliana" 1989, Mol. Gen. Genet. 219, pp. 365-372, Springer-Verlag			
	A55	Vogel et al., "Recessive and dominant mutations in the ethylene biosynthetic gene ACS5 of Arabidopsis confer cytokinin insensitivity and ethylene overproduction, respectively", 1998, Proc. Natl. Acad. Sci. 5, pp. 4766-4771, The National Academy of Sciences			
	A56	Whalen et al., "Identification of Pseudomonas syringae Pathogens of Arabidopsis and a Bacterial Locus Determining Avirulence on Both Arabidopsis and Soybean" 1991, Plant Cell 3, pp. 49-60, Amer. Soc. Of Pl. Phy.			
EXAMINER				DATE CONSIDERED	
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.					

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 030307/0193		SERIAL NO. 09/730,478	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT John MUNDY et al			
				FILING DATE 12/06/2000		GROUP ART UNIT Unassigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A57	Xie et al., "COL1: An Arabidopsis Gene Required for Jasmonate-Regulated Defense and Fertility", 1998, Science 280, pp. 1091-1094, Sainsbury Laboratory					
	A58	Zhang & Klessig, "The tobacco wounding-activated mitogen-activated protein kinase is encoded by SIPK" 1998, Proc. Natl. Acad. Sci, 95, pp. 7433-7438, The National Academy of Sciences					
	A59	Zhang & Klessig, "Salicylic Acid Activates a 48-kD MAP Kinase in Tobacco", 1997, Plant Cell, 9, pp. 809-824 American Society of Plant Physiologists					
	A60	Zhang et al., "Germin-like oxalate oxidase, a H ₂ O ₂ -producing enzyme, accumulate in barley attacked by the Powdery mildew fungus", 1995, Plant J. 8, pp. 139-145, Huazhong Agricultural Univ. Wuhan, China					
	A61	Bowling et al., The cpr5 Mutant of Arabidopsis Expresses Both NPR1-Dependent and NPR1-Independent Resistance", The Plant Cell, vol. 9, pp. 1573-1584, 1997, American Society of Plant Physiologists					
	A62	Heribert Hirt, "Multiple roles of MAP kinases in plant signal transduction", Trends in Plant Science, 1997, pp. 11-14, Elsevier Science Ltd					
	A63	Blatt, Jonathan D.G. Jones et al., "K ⁺ channels of Cf-9 transgenic tobacco guard cells as targets for Cladosporium fulvum Avr9 elicitor-dependent signal transduction", The Plant Journal, 1999, pp. 453-462 Blackwell Science Ltd.					
	A64	Jefferson et al., GUS fusion: β -glucuronidase as a sensitive and versatile gene fusion marker in higher plants", The EMBO Journal, vol. 6, pp. 3901-3907, 1987, IRL Press Limited, Oxford, England					
	A65	Fambrough et al., "Diverse signaling pathways activated by growth factor receptors induce broadly overlapping Rather than independent, sets of genes" Cell, vol. 97, pp. 727-741, 1999, Cell Press					
	A66	Haseloff et al., "Removal of a cryptic intron and subcellular localization of green fluorescent protein are Required to mark transgenic Arabidopsis plants brightly", Proc. Natl. Acad. Sci. USA, vol. 94, pp. 2122-2127, 1997, Applied Biological Sciences					
	A67	Miller et al., Circadian clock mutants in Arabidopsis identified by Luciferase Imaging" Science, vol. 267, 1995, Circadian Clock Mutants in Arabidopsis					
	A68	Jen Sheen, Mutational analysis of protein phosphatase 2C involved in abscisic acid signal transduction in Higher plants", Proc. Natl. Acad. Sci. USA, vol 95, pp. 975-980, 1998, Natl. Acad. Of Sciences					
	A69	Bhatt et al., "The DIF1 gene of Arabidopsis is required for meiotic chromosome segregation and belongs to the REC8/RAD21 cohesin gene family", The Plant Journal, 1999, 19(4), pp. 463-472, Blackwell Science Ltd.					
	A70	Kost et al., "A GFP-mouse talin fusion protein labels plant actin filaments in vivo and visualizes the actin Cytoskeleton in growing pollen tubes, The Plant Journal, 1998, 16(3), pp. 393-401, Blackwell Sci. Ltd.					
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.							

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 030307/0193		SERIAL NO. 09/730,478	
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				APPLICANT John MUNDY et al			
				FILING DATE 12/06/2000		GROUP ART UNIT Unassigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A71	Khokhlatchev, Phosphorylation of the MAP kinase ERK2 promotes its homodimerization and nuclear Translocation", Cell, vol. 93, pp. 605-615, 1998, Cell Press					
	A72	"MAP kinases and plant defence", Research News, 1997, vol. 2, no. 11, pp. 406-409, Elsevier Science Ltd.					
	A73	Cao et al., "Characterization of an Arabidopsis mutant that is nonresponsive to inducers of systemic Acquired resistance", 1994, Plant Cell 6, pp. 1583-1592, American Society of Plant Physiologists					
	A74	Clarke et al., "Uncoupling PR gene expression from NPR1 and bacterial resistance: characterization of the Dominant Arabidopsis cpr6-1 mutant" 1998, Plant Cell 10, pp. 557-569, Amer. Soc. Of Plant Physiologists					
	A75	Clough et al., "The Arabidopsis dnd1 "defense, no death" gene encodes a mutated cyclic nucleotide-gated ion channel", 2000, Proc. Natl. Acad. Sci. USA 97, pp. 9323-9328, Plant Biology					
	A76	Delaney et al., "Arabidopsis signal transduction mutant defective in chemically and biologically induced disease resistance", 1995, Proc. Natl. Acad. Sci. USA 92, pp. 6602-6606, Plant Biology					
	A77	Eulgem et al., "Early nuclear events in plant defence signalling: rapid gene activation by WRKY transcription factors" 1999, EMBO J. 18, pp. 4689-4699, Max-Planck-Inst. Fur Zuchtungsforschung, Germany					
	A78	Falk et al., "EDS1, an essential component of R gene-mediated disease resistance in Arabidopsis has homology to eukaryotic lipases", 1999, Proc. Natl. Acad. Sci. USA 96, pp. 3292-3297, Plant Biology					
	A79	Felton et al., "Inverse relationship between systemic resistance of plants to microorganisms and to insect herbivory", 1999, Curr. Biol. 9, pp. 317-320, Elsevier Science Ltd.					
	A80	Forsburg & Sherman, "General purpose tagging vectors for fission yeast" 1997, Cene 191, pp. 191-195 Elsevier Science B.V.					
	A81	Gaffney et al., "Requirement of Salicylic acid for the induction of systemic acquired resistance", 1993, Science 261, pp. 754-756, Ciba-Geigy Ltd., Switzerland					
	A82	Glazebrook, "Genes controlling expression of defense responses in Arabidopsis", 1999, Plant Biol. 2, pp. 280-286, Novartis Agricultural Discovery					
	A83	Greenberg et al., "programmed cell death in plants: a pathogen- triggered response activated coordinately with multiple defense functions", 1994, Cell 77, pp. 551-563, Cell Press					
	A84	Gupta et al., "Arabidopsis thalian EDS4 contributes to salicylic acid (SA)-dependent expression of defense responses: Evidence for inhibition of Jasmonic acid signaling by SA", 2000, Mol. Plant-Microbe Interact. 13, pp. 503-511, American Phytopathological Society					
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.							

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 030307/0193	SERIAL NO. 09/730,478
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT John MUNDY et al	
				FILING DATE 12/06/2000	GROUP ART UNIT Unassigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
	A85	Huang et al., "ATMPK4, an Arabidopsis homolog of Mitogen-activated protein kinase, is activated in vitro by AtMEK1 through Threonine Phosphorylation ¹ ," 2000, Plant Physiology 122, pp. 1301-1310, American Society of Plant Physiologists			
	A86	Jelitto-Van Dooren et al., Anticipation Endoplasmic reticulum stress: a novel early response before Pathogenesis-related gene induction", 1999, Plant Cell 11, pp. 1935-1944, Amer. Soc. of Plant Physiologists			
	A87	Jirage et al., "Arabidopsis thaliana PAD4 encodes a lipase-like gene that is important for salicylic acid signaling" 1999, Proc. Natl. Acad. Sci. USA 96, pp. 13583-13588, Plant Biology			
	A88	Johansen, "In situ PCR on plant material with sub-cellular resolution", 1997, Ann. Bot. 80, pp. 697-700 Annals of Botany Company			
	A89	Kumar & Kessig, "Differential induction of tobacco MAP kinases by the defense signals Nitric Oxide, Salicylic acid, Ethylene, and Jasmonic acid", 2000, Mol. Plant Microbe Interact. 13, pp. 347-351, Amer. Phyt. Soc.			
	A90	Lawrence et al., "Detecting subtle sequence signals: A Gibbs sampling strategy for multiple alignment" 1993, Alignment Science 262, pp. 208-214, Research Articles			
	A91	Lebel et al., Functinal analysis of regulatory sequences controlling PR-1 gene expression in Arabidopsis", 1998, Plant J. 16, pp. 223-233, Blackwell Science Ltd.			
	A92	Li et al., "Identification and cloning of a negative regulator of systemic acquired resistance, SN11, through a screen for suppressors of npr1-1", 1999, Cell 98, pp. 329-339, Cell Press			
	A93	Malamy et al., "Salicylic Acid: A likely endogenous signal in the resistance response of tobacco to viral infection", 1990, Science 250, pp. 1002-1004, Reports			
	A94	Miyata et al., "A strategy to make constitutively active MAP kinase by fusing with constitutively active MAP kinase kinase", 1999, Biochimica et Biophysica Acta, 1451, pp. 334-342, Elsevier Science B.V.			
	A95	Mittler et al., "Coordinated activation of programmed cell death and defense mechanisms in transgenic tobacco plants expressing a bacterial proton pump", 1995, Plant Cell 7, pp. 29-42, Amer. Soc. Of Plant Physiologist			
	A96	Molina & Olmedo, "Enhanced tolerance to bacterial pathogens caused by the transgenic expression of barley lipid transfer protein LTP2", 1997, Plant J. 12, pp. 669-675, Lab. De Bio. y Bio. Mol., Madrid Spain			
	A97	Molina et al., "Inhibition of protoporphyrinogen oxidase expression in Arabidopsis causes a lesion-mimic phenotype that induces systemic acquired resistance", 1999, Plant J. 17, 667-678, Blackwell Science Ltd.			
	A98	Nawrath & Metraux, "Salicylic Acid induction-deficient mutants of Arabidopsis express PR-2 and Pr-5 and accumulate high levels of Camalexin after pathogen inoculation", 1999, Plant Cell 11, pp. 1393-1404 Amer. Soc. Of Plant Physiologists			
EXAMINER			DATE CONSIDERED		
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.					

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 030307/0193		SERIAL NO. 09/730,478	
INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)				APPLICANT John MUNDY et al			
				FILING DATE 12/06/2000		GROUP ART UNIT Unassigned	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A99	Parker et al., "Characterization of eds1, a mutation in Arabidopsis suppressing resistance to Peronospora Parasitica specified by several different RPP genes", 1996, Plant Cell 8, pp. 2033-2046, Amer. Soc. Of Plant Physiologists					
	A100	Parker et al., The Arabidopsis downy mildew resistance gene RPP5 shares similarity to the toll and interleukin-1 receptors with N and L6", 1997, Plant Cell 9, pp. 879-894, American Society of Plant Physiologists					
	A101	Penninckx et al., "pathogen-induced systemic activation of a plant defensin gene in Arabidopsis follows a Salicylic acid-independent pathway", 1996, Plant Cell 8, pp. 2309-2323, Amer. Soc. Of Plant Physiologists					
	A102	Pieterse & van Loon, Salicylic acid-independent plant defence pathways" 1999, Trends Plant Sci. 4, pp. 52-58 Elsevier Science					
	A103	Rate et al., "The gain-of-function arabidopsis acd6 mutant reveals novel regulation and function of the salicylic acid signaling pathway in controlling cell death, defenses, and cell growth", 1999, Plant Cell 11, pp. 1695-1708 American Society of Plant Physiologists					
	A104	Robinson et al., "A constitutively active and nuclear form of the MAP kinase ERK2 is sufficient for neurite Outgrowth and cell transformation", 1998, Current Biology 8, pp. 1141-1150, Current Biology Ltd.					
	A105	Schenk et al., "Coordinated plant defence responses in Arabidopsis revealed by microarray analysis" 2000, PNAS 97, pp. 11655-11660, Plant Biology					
	A106	Seo et al, "jasmonate-based wound signal transduction requires activation of WIPK, a tobacco mitogen-Activated protein kinase", 1999, Plant Cell 11, pp. 289-298, American Society of Plant Physiologists					
	A107	Shah et al., "The Arabidopsis ssi1 mutation restores pathogenesis-related gene expression in npr1 plants and Renders defensin gene expression salicylic acid dependent", 1999, Plant Cell 11, pp. 191-206, American Society of Plant Physiologists					
	A108	Taipalensuu et al., "Regulation of the wound-induced myrosinase-associated protein transcript in Brassica napus plants" 1997, Eur. J. Biochem. 247, pp. 963-971, FEBS					
	A109	Thomma et al., "Separate jasmonate-dependent and salicylate-dependent defense-response pathways in Arabidopsis are essential for resistance to distinct microbial pathogens", 1998, Proc. Natl. Acad. Sci. USA 95, pp. 15107-15111, natl. Academy of Sciences					
	A110	Ward et al., "Coordinate gene activity in response to agents that induce systemic acquired resistance", 1991, Plant Cell 3, pp. 1085-1094, American Society of Plant Physiologists					
	A111	Weymann et al., Suppression of restoration of lesion formation in Arabidopsis lsd mutants", 1995, Plant Cell 7, pp. 2013-2022, American Society of Plant physiologists					
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.							

